

ABSTRACT

The present invention relates to a genotyping kit for
 diagnosing patients infected with human papillomavirus (HPV),
 5 and a method for diagnosis of HPV infection by genotyping
 specimen DNA isolated from the patients using the said kit.
 The genotyping kit of the invention comprises a DNA chip
 with probes that have nucleotide sequences complementary to
 DNA of HPV, primers for amplifying the DNA of a sample by
 10 PCR, and means for labeling hybridized sample DNA with the
 DNA chip. The method for diagnosis of HPV infection
 comprises the steps of amplifying DNA obtained from a
 sample using the primers of the kit, applying the amplified
 DNA to the DNA chip and hybridizing the amplified DNA and
 15 the probes of the DNA chip, and detecting DNA bound on the
 surface of the DNA chip by labeling hybridized DNA. In
 accordance with the invention, the genotyping kit may be
 practically applied to the early diagnosis, prevention and
 treatment of cervical cancer, since the kit can easily
 20 diagnose HPV infection, and can exactly determine the
 genotype of the HPV.